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Safety Evaluation

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Safety Evaluation Number ¹	: SE-W375-00-00017	Revision No:	0	_
ABCN Number: ABCN-V	V375-00-00025			
Safety Evaluation Subject:	Changes to the PSM Program			

PART I: DESCRIPTION OF THE PROPOSED REVISION, BACKGROUND, AND SCHEDULE

1. Describe the proposed revision (including credible failure modes, if applicable).

Revise the definition of Safety Design Class in SRD SC 1.0-8 and 2.0-2, QAPIP Section 1.2.1, and ISMP Section 12 from ERPG-2 to workers or the public to ERPG-2 to the public, ERPG-3 to the colocated worker, or a single worker fatality or hospitalization of 3 or more workers. Provide for use of TEEL values as substitute criteria in cases where no ERPG value has been published.

Replace ISMP with SRD Appendix A as an implementing standard for SRD SC 1.0-1, 3.1-1, -2, -3, -4, -5, -8.

Remove references to 29 CFR 1910.119 and/or 40 CFR 68 as regulatory bases in SRD SC 1.0-1, 3.1-1, -2, -3, -5, -6, -7, -8, 4.0-2, 4.5-23, 6.0-1, -5, 7.1-1, -2, 7.2-3, -3, -5, -6, -7, -8, 7.3-7, -10, -11, 7.6-2, -4, 7.7-1, -2, -3, 7.8-1, -2, -5, 9.1-7, and ISMP Sections 1.3.16, 1.3.17, 3.10, 5.0, 5.6.8, 7.2, and 9.2.

Delete SRD Section 9.3

Revise SRD SC 3.1-1 to specify that chemical hazards must be included in the PHA.

Revise SRD SC 3.1-2 to allow compilation of process safety information appropriate to the level of design, to support the PHA.

Revise the update frequency for PHA specified in SRD SC 3.1-7, and ISMP Sections 5.6.2 and 9.2 from once every 5 years to annual.

Revise the seismic design criteria in SRD SC 4.1-3 and 4.1-4, and ISMP Section 1.3.10 for SSC's designated SDC on the basis of chemical consequences from SC-I/II to SC-III.

Revise the chemical concentration limits specified in SRD SC 4.3-7for control room habitability from ERPG-2 to the values specified in 29 CFR 1910.120, and add 29 CFR 1910.120 to the list of regulatory bases.

Include chemical hazards in the definition of USQ specified in SRD SC 7.4-1, and ISMP Section 3.16.4.

Revise the scope of the Hazards Identification specified in SRD Appendix A, Section 4.3.1 to include chemical hazards.

Revise the discussion of control room habitability in SRD Appendix A, Section 5, and ISMP Section 1.3.7 and 8 to be consistent with changes made to SRD SC 4.3-7.

2. Identify the affected Authorization Basis (AB) documents and perform a comparison and assessment of the revision against the AB.

BNFL-5193-SRD-01, Revision 2e, *TWRS-P Safety Requirements Documen*, safety criteria 1.0-1 and -8, 2.0-2, 3.1-1, -2, -3,-4, -5, -6, -7, and -8, 4.0-2, 4.1-3, 4.1-4, 4.3-7, 4.5-23, 6.0-1, and -5, 7.1-1, and -2, 7.2-3, -4, -5, -6, -7, and -8, 7.3-7,-10, and -11, 7.4-1, 7.6-2, and -4, 7.7-1,-2, and -3, 7.8-1, -2, and -5, 9.1-7, Section 9.3 in it's entirety, and Appendix A Sections 4.3.1, and 5.0.

BNFL-5193-QAP-01, Rev 4, TWRS-P Project Quality Assurance Program and Implementation Plan,

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¹ The Safety Evaluation Number shall be obtained from Project Document Control.

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ABC	CN Number: ABCN-W375-00-00025			
Safe	ety Evaluation Subject: Changes to the PSM Program			
	Section 1.2.1.			
	BNFL-5193-ISP-01, Rev 4, TWRS-P Project Integral 1.3.10, 1.3.16, 1.3.17, 3.10, 3.16.4, 5.0, 5.6.2, 5.6.8		ections 1.3	3.7, 1.3.8
	The assesment of the change against the AB is con-	tained in Section II below.		
3.	List the references used for the safety evaluation.			
	BNFL-5193-SRD-01, Revision 2e, TWRS-P Safety Requ	iirements Document.		
	DOE/RL-96-0006, Revision 1, Top Level Radiological, TWRS Privatization Contractors.	Nuclear and Process Safety Standard	ls and Prin	cipals for
	Emergency Response Planning Guidelines and Workpla American Industrial Hygiene Association, 1999 and 200	-	ides Handl	book,
	29 CFR 1904.8 Reporting of fatality or multiple hospita	lization incidents.		
	BNFL-5193-QAP-01, Rev 5, TWRS-P Project Quality A	ssurance Program and Implementati	on Plan	
	BNFL-5193-ISP-01, Rev 4, TWRS-P Project Integrated	Safety Management Plan		
	29 CFR 1910.120 Hazardous Waste Operations and Em	ergency Response		
4.	Describe the planned revision implementation schedule	o.		
	The revisions will be incorporated into the SRD within 3	30 days of reciept of RU approval.		
PA	ART II: REGULATORY IMPACT OF PROPOSI	ED AB REVISION		
	e following questions are to be answered as part of the safety and the proposed initiating change if applicable) requires prior		posed AB	revision
1.	Does the revision involve the deletion or modification of a established in the approved SRD?	standard previously identified or	YES ⊠	<u>NO</u>
	JUSTIFICATION:			
	The change alters requirements and standards in the SRD	as described above.		
2.	Does the revision result in a reduction in commitment curre	ently described in the AB?		\boxtimes
	JUSTIFICATION:			
	The changes proposed do not lessen BNFL's commitment workers, or members of the public a level of protection against the changes proposed do not lessen BNFL's commitment.			

equal to or better than that provided by best industry practice.



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Safety	Evaluation Subject: Ch	anges to the PSM Program		
]	plan described in the AB.	a reduction in the effectiveness	of any program, procedure	, or $\frac{\text{YES}}{\square}$ $\frac{\text{NO}}{\boxtimes}$
	JUSTIFICATION:	~~~		
,	The effectiveness of the F	SM program remains unchange	d.	
		ne terms and responding to the a Authorization Basis, Appendix		in K70C528, Code of Practice
If all	the answers to the above	questions are no, then the chang	ge can be made without prio	r RU approval.
	-	yes, then RU approval is require. An ABAR shall be prepared t	1 1	· ·
PAF	RT III: SAFETY E	VALUATION CONCLUSIO	N	
	-	re answered No. Therefore, RU nd initiating change where appli		prior to implementing the
	-	estion is answered Yes. Thereford initiating change where appliance appliance.		
Eval	uator/Originator		D	Pate
Revi	ewer ²		D	Pate
Radi	ation Safety and Regulate	ory Manager		Pate
Chai	r, Project Safety Commit	tee ³	D	Pate

The reviewer should be a person from the same department as the Evaluator/Originator and at least as qualified as the Evaluator/Originator to conduct safety evaluations.
This signature required if Safety Evaluation concludes AB change can be made without RU prior approval. If RU approval (ABAR) is required, PSC and GM signatures occur on the ABAR.

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RPP-WTP General Manager ³	 Date